

Alignment of Nulake Year 11 Mathematics Workbook to Qatar Grade 10A Standards

Overall features:

- Differentiated questions at 3 levels – Achievement/Merit/Excellence supports differentiated teaching.
- There are good notes and examples on use of graphic calculators –useful for teachers who have not had pd
- Advice on customizing the workbook for individual learning styles is included.
- Hints on how to study and how to use the book are included for teachers.
- The book is cheap – should be QR60 or thereabouts so it is feasible that every student have one as their basic workbook.
- The language is appropriate.
- The authors are open to writing specific sections to meet local conditions if numbers are guaranteed – e.g. a section on vectors could be included if requested.
- Highlighted notes and worked examples are well set out.
- Whereas many schools seem to send textbooks home for the students to use for homework (and they remain there unused for the year) and at the same time many students do not bring their workbooks to class, this combines the 2 books in one.

Alignment to Grade 10A Course

Nulake Chapter	10A Unit	Standards covered (from the unit)	Standards omitted	Notes
1.0 Algebra	10A-03 Aspects of 10A-10	10A 3.5, 4.1, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13, 4.14 5.20	10A 2.2, working with surds Completing the square and the quadratic formula are in Nulake Year 12 Chapter 1.0	Focuses on algebraic manipulation, patterns and solving algebraic equation in context
2.0 Graphs	10A-06 Aspects of 10A-10	10A 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11, 5.12, 5.13, 5.15, 5.20	10A 5.1 Some of 10A-10 10A 5.18 and 10A 4.11 are covered in Nulake Year 12 Workbook Chapter 1.0 Hyperbolae and trig graphs are covered in Nulake Year 12 Workbook	Includes notes on graphic calculator use The <u>language of proportionality</u> is <u>not used</u> in the same form as the SoW 10A 5.15, 5.19 are in Nulake Year 12 Workbook

			Chapters 2.0 and 9.0	Chapter 3.0
3.0 Measurement	Aspects of 10A-05	10A 7.1, 7.4	10A 7.2 (this is in the Year 12 book)	10A 7.3 is in Chapter 8
4.0 Geometric Drawing	Aspects of 10A-07	10A 6.10, 6.11, 6.12 (in part)		
5.0 Statistics	10A-04 Most of 10A-09	10A 1.1, 1.4, 1.11, 1.12, 8.1, 8.2, 8.3, 8.4, 8.8, 8.10 10A 8.5, 8.6, 9.1, 10.1	8.9 and 8.7 (both are covered in Nulake Year 12 Workbook)	Covered in more depth in Nulake Year 12 Workbook
6.0 Probability	Not covered in SoW			
7.0 Number	10A-01	10A 3.1, 3.3, 3.4, 3.7	3.2, 5.17, 2.5, 2.1, 2.2	
8.0 Trigonometry	10A-11	10A6.5,	10A 6.6 is covered as approximate values only 10A6.7	10A 6.8 is covered in Nulake Year 12 Workbook Chapter 2.0
9.0 Geometric Reasoning	Aspects of 10A-02, 10A-07	10A 1.4, 1.6, 1.7, 1.8, 6.1, 6.4 6.10	6.2, 6.3 6.9	Some of extension standard 11A 8.9 is covered
				Unit 10F-5 sequences is covered in Nulake Year 12 book, and 10F-5 algebra work is covered variously in Nulake Year 11 and Year 12 books, Chapter 1
				Unit 10A-08 is not covered but <i>is</i> in Year 12 Nulake Workbook Chapter 7.0